Lessons Learned and Addendum For the R5.0 IFPS Installation Instructions

Dated June 8, 2001

NOTE: The information in this document is not optional, except where noted.

The changes listed below are separated out by the part number as they appear in the R5.0 IFPS installation instructions. For the most part these are clarifications or additional instructions that must be done by the site during the specified parts of the upgrade.

The information below will be upgraded and updates will be placed on the following webpage: **http://www.oso3.nws.noaa.gov/awips_softwre.htm** When you go to the webpage, check the date of the lessons learned/addendum with the date of this document to ensure you have the latest one. Sometimes it takes a day or so for the update to get posted on the web page.

Part 0 - Preinstallation Requirements

5c. A correction to the IP address for the NOAA1 server is needed. The ftp command should be: (5/3)

```
ftp 165.92.25.15
```

6. New step to be added to the instructions: (5/3)

Back up any batch files located in /awips/adapt/ifps/bin, such as those for Columbia=s Fire Weather and NFDRS (FWM) local applications, that run from the Product Generation Menu. Except for a select few files, most everything in /awips/adapt/ifps/bin from ICWF is removed.

7. In addition, to step 6, be sure to back up your ~/bin and ~/data directories before the upgrade. (5/14)

8. Maintenance release R5.03 is available and has an IFPS patch in it. The maintenance release needs to be installed on a site with R5.0. If the site does not have R5.0 IFPS installed, the maintenance release (R5.03) will install every patch except the IFPS patch. If you installed maintenance release R5.03, and are now installing R5.0 IFPS, you will need to install the IFPS portion of R5.03 **after** the installing R5.0 IFPS. Part C of the R5.03 mod note gives instructions for installing the IFPS portions of the maintenance release. Information on maintenance release R5.03 is found at: http://www.oso3.nws.noaa.gov/awips_softwre.htm (6/8)

PART 1: Install Release 5.0 IFPS

4.B Add this to the end of step 4 of the R5.0 IFPS instructions (May 3)

Two ER sites had a problem with the 5.0.IFPS install. We have included an explanation of the problem below as well as a few UNIX commands that if preformed prior to the beginning of the install help prevent this error from occurring. Here is the description of the problem and steps that can be taken to prevent it from happening:

Overview of the problem:
It has been reported at several sites that the IFPS install will fail due to the ICWF database being locked or "currently opened" during the installation of R5.0 IFPS. So far, it has been found that this occurs for two reasons. **First**, the site may be running ICWF at the time of the 5.0.IFPS installation. **Second,** old ICWF process may be running on the workstation without the site's knowledge. **In each of these cases the result will be that the ICWF database is locked and the install is unable to rename the database from icwf_ccc to ifps_ccc.** The end result is that all database related processes of the install fail.

Avoiding future 5.0.IFPS install failures:

In Part 1 step 1, it is clearly stated in the install instructions to ensure that no users are currently running ICWF.

The second problem can be avoided by doing the following on each of the workstations:

Type:

```
ps -ef | grep ifp
```

Kill any and **all processes related to ICWF**. It is essential that no ICWF processes be running at the time of the 5.0.IFPS install.

6. Step 6 on page 1-2 needs to be replaced with the following:

A. Now that the IFPS patch is installed, you will need to do the following make some changes before IFPS will work. If you are in daylight saving time, you will need to change the appropriate file to support this. If you do not know how to do this, use the following procedure.

(May 14, 2001)

* The serverConfig.py file needs to be updated to support daylight saving time. Here are the steps required to make this adjustment:

1. On the primary DS as user ifps, you will need to stop the ifpServer.
   + `ps -ef | grep ifpServer`
   + `kill <process id>`

2. Copy /awips/adapt/ifps/data/gfe/serverConfig.py to preserve backup copy
   + `cd /awips/adapt/ifps/data/gfe`
   + `cp serverConfig.py  serverConfig.py.standard`

3. Edit /awips/adapt/ifps/data/gfe/serverConfig.py
   + Change the following lines within the "Time Constraint configurationsection" of serverConfig.py
   + Change: "Current Value";
     To: "New Value" (exact change in bold type)
   + Change: MaxTTC = localTC(6, 24, 12, 0);
     To: MaxTTC = localTC(6, 24, 12, 1)
   + Change: MinTTC = localTC(18, 24, 12, 0);
     To: MinTTC = localTC(18, 24, 12, 1)
   + Change: LT3NG = localTC(0, 3, 3, 0);
     To: LT3NG = localTC(0, 3, 3, 1)
   + Change: LT6NG = localTC(0, 6, 6, 0);
     To: LT6NG = localTC(0, 6, 6, 1)
   + Change: LT12NG = localTC(6, 12, 12, 0);
     To: LT12NG = localTC(6, 12, 12, 1)
   + Change: LTMOS = localTC(6, 12, 12, 0);

To: LTMOS = localTC(6, 12, 12, 1)

4. Start the ifpServer on primary DS as user ifps
   + **`/awips/adapt/ifps/bin/start_DS_ifps_servers ccc`**
   where ccc is 3-letter site identification in lower case

5. Wait for model guidance to start ingesting via the cron

* The site needs to verify that ifpServer and ifpServerWatcher are running on the primary DS after the 5.0.IFPS upgrade. This verification can be done by using the following steps:

1. Login onto the primary DS
   + **`rlogin ds1-ccc`**

2. Check for the ifpServer processes
   + **`ps -ef | grep ifpServer`**

3. If a process named ifpServer and ifpServerWatcher appear, all is OK

4. If one of these processes is missing, then the servers on the DS need to be restarted as user ifps
   + **`su - root`**
   + **<password for root>**
   + **`su - ifps`**
   + **`stty erase`**
   + **`/awips/adapt/ifps/bin/start_DS_ifps_servers ccc`**
   where ccc is 3-letter site identification in lower case

B. Start IFPS.

Note: The IFPS Master Menu will not start immediately after the R5.0 IFPS upgrade. The **site needs to wait for guidance to be ingested in order to start the IFPS Master menu**. After the guidance is ingested, please do the following:

i. This is necessary because if you don't start IFPS within a couple of days of the upgrade, you will run into problems. Specifically, the subdirectory /data/logs/adapt/ifps will get deleted and you won't be able to restart IFPS.

ii. Similar, **if not use IFPS within 3 days**, the subdirectory /data/logs/adapt/ifps will get deleted.

Problems "i" and "ii" will be fixed in an upcoming patch. If you run into the problem and can't start IFPS on a workstation, then on that workstation you will need to recreate the ifps subdirectory. To do this type the following commands then restart IFPS.

```
mkdir /data/logs/adapt/ifps
chmod 777 ifps
```

C. Manually download some NGM MOS grid files.

7. The web page found in the instructions should work and get you to the web page with any new patches. If that page doesn't work, use the following:

http://www.oso3.nws.noaa.gov/awipsnew/software/allpatches.htm

Maintenance Release R5.03 is available and should be re-installed after you install R5.0 IFPS. The following web page contains information on this Maintenance Release:

http://www.oso3.nws.noaa.gov/awips_softwre.htm 6/8/01

NOTE: When you install the IFPS portion of the R5.03 maintenance release, the Xdefaults/Igr-ccc file will get overwritten. Therefore, save off a copy of this Igr-ccc file before the R5.03 upgrade. Manual reconciliation of site-specific modifications into this file will be needed after the R5.03 upgrade.

8. Any local scripts that get modified such as zfp.bat and fireFWM.bat should be placed into the localbin directory (not the bin directory). This is necessary that they are not removed during the next upgrade. (5/14)